



Das Original

CURIL K2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 06/30/2015

Supersedes: 10/15/2019

Version: 3.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : CURIL K2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Adhesives, sealants

1.3. Details of the supplier of the safety data sheet

ElingKlinger AG
Max-Eyth-Straße 2
Dettingen/Erms, 72581 - Germany
det.iam.sdb@elingklinger.com

SDS: DLAC Dienstleistungsagentur Chemie GmbH, sds@dlac-gmbh.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
Germany	Giftinformationszentrum (GIZ-Nord) Zentrum Pharmakologie und Toxikologie der Universität Göttingen	Robert-Koch Strasse 40 D-37075 Göttingen	+49 551 19240 (German/English)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification in accordance with paragraph (d) of § 1910.1200

Flam. Liq. 2 H225
Skin Sens. 1 H317
Eye Irrit. 2A H319

Full text of H-statements: see section 16

2.2. Label elements

GHS-US labelling in accordance with paragraph (f) of § 1910.1200

Hazard pictograms (GHS-US) :



GHS02

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/Bond container and receiving equipment
P241 - Use explosion-proof electrical, ventilating, lighting equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing dust, fume, gas, mist, vapors, spray
P264 - Wash hands thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves, eye protection, face protection
P302+P352 - If on skin: Wash with plenty of water
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321 - Specific treatment (see advice on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice
P363 - Wash contaminated clothing before reuse
P403+P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/container to an authorised waste collection point

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Ethanol	(CAS No) 64-17-5	25 - 50	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Acetone	(CAS No) 67-64-1	< 1.5	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Methylols	(CAS No) -	< 1	Skin Sens. 1, H317
Potassium aluminum silicate (Mica)	(CAS No) 12001-26-2	5 - 10	Not classified
Silica gel	(CAS No) 112926-00-8	5 - 10	Not classified
Silicon dioxide	(CAS No) 112945-52-5	1 - 3	Not classified

Trade secret claim in accordance with paragraph (i) of § 1910.1200: The exact percentage (concentration) of composition has been withheld as a trade secret.

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : Remove all contaminated clothing and footwear. Wash with soapy water. In case of redness or irritation, call a doctor.
- First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Consult an eye specialist immediately, even if there are no immediate symptoms.
- First-aid measures after ingestion : Rinse mouth out with water. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after skin contact : May cause an allergic skin reaction.
- Symptoms/injuries after eye contact : Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂). Foam. Powder. Water spray.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Reactivity : Highly flammable liquid and vapor.
- Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

- Firefighting instructions : Cool down the containers exposed to heat with a water spray. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Avoid contact with skin and eyes. Do not breathe vapors. In case of important spillage: Only qualified personnel equipped with suitable protective equipment may intervene.

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6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not allow product to spread into the environment.

6.3. Methods and materials for containment and cleaning up

For containment : Liquid spill: Take up in sand, earth, vermiculite. Put into a labelled container and provide safe disposal.
Methods for cleaning up : Wash away residue with large amounts of water.
Other information : Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapors. Avoid the build-up of electrostatic charge. May form flammable/explosive vapor-air mixture. Ground/bond container and receiving equipment. Keep away from sources of ignition. Use only non-sparking tools. Do not smoke. Prevent unauthorized access.
Hygiene measures : Remove contaminated clothes. Do not drink, eat or smoke in the workplace. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Storage conditions : Keep container tightly closed and dry. Store in dry, cool, well-ventilated area. Protect from heat and direct sunlight. Keep away from ignition sources. Avoid the build-up of electrostatic charge.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethanol (64-17-5)		
ACGIH	Local name	Ethanol
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	A3, URT irr
NIOSH	Local name	Ethyl alcohol
NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
OSHA	Local name	Ethyl alcohol (Ethanol)
OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Cal/OSHA	Local name	Ethyl alcohol; ethanol
Cal/OSHA	Cal/OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
Cal/OSHA	Cal/OSHA PEL (TWA) (ppm)	1000 ppm
Acetone (67-64-1)		
ACGIH	Local name	Acetone
ACGIH	ACGIH TWA (ppm)	250 ppm
ACGIH	ACGIH STEL (ppm)	500 ppm
ACGIH	Remark (ACGIH)	A4, BEI, URT & eye irr; CNS impair
ACGIH	BEI	25 mg/l Determinant: Acetone in urine
ACGIH	Remark (ACGIH)	Ns
NIOSH	Local name	Acetone
NIOSH	NIOSH REL (TWA) (mg/m ³)	590 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	250 ppm
OSHA	Local name	Acetone
OSHA	OSHA PEL (TWA) (mg/m ³)	2400 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

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Acetone (67-64-1)		
Cal/OSHA	Local name	Acetone
Cal/OSHA	Cal/OSHA PEL (TWA) (mg/m ³)	1200 mg/m ³
Cal/OSHA	Cal/OSHA PEL (TWA) (ppm)	500 ppm
Cal/OSHA	Cal/OSHA Ceiling (ppm)	3000 ppm
Cal/OSHA	Cal/OSHA STEL (mg/m ³)	1780 mg/m ³
Cal/OSHA	Cal/OSHA STEL (ppm)	750 ppm

Potassium aluminum silicate (Mica) (12001-26-2)		
ACGIH	Local name	Mica
ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ (R)
ACGIH	Remark (ACGIH)	Pneumoconiosis
NIOSH	Local name	Mica (containing less than 1% quartz)
NIOSH	NIOSH REL (TWA) (mg/m ³)	3 mg/m ³ (resp)
OSHA	Local name	Silicates (less than 1% crystalline silica): Mica
OSHA	OSHA PEL (TWA) (mppcf)	20 mppcf
Cal/OSHA	Local name	Mica (respirable dust)
Cal/OSHA	Cal/OSHA PEL (TWA) (mg/m ³)	3 mg/m ³

Silica (7631-86-9)		
NIOSH	Local name	Silica, amorphous
NIOSH	NIOSH REL (TWA) (mg/m ³)	6 mg/m ³
OSHA	Local name	Amorphous, including natural diatomaceous earth
OSHA	OSHA PEL (TWA) (mppcf)	20 mppcf
OSHA	OSHA PEL (TWA) (mg/m ³)	80 mg/m ³ / (% SiO ₂)

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Extraction to remove vapors at their source.

8.3. Individual protection measures, such as personal protective equipment

Hand protection : Wear suitable gloves. Protective rubber gloves, resistant to solvents. Nitrile rubber, butyl-rubber protective gloves (EN374). Breakthrough time : refer to the recommendations of the supplier.

Eye protection : Safety glasses (EN166).

Skin and body protection : Complete protective clothing (EN13034).

Respiratory protection : Breathing apparatus with filter A/P3 (EN141).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : Liquid. Viscous.

Odor : Odorless.

Odor threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : 78 °C

Flash point : 13 °C

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper/lower flammability or explosive limits : Explosive limits: 3.5 - 15 vol %

Vapor pressure : 59 hPa (20 °C)

Vapor density : No data available

Density : 1.04 g/cm³ (20 °C, DIN 51757)

Solubility(ies) : Water: Not miscible

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : 425 °C (DIN 51794)

Decomposition temperature : No data available

Viscosity : No data available

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9.2. Other information

Explosive properties : Not explosive. Explosive vapor/air mixtures may be formed.

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

On exposure to high temperature, may decompose, releasing toxic gases.

10.4. Conditions to avoid

High temperature. No flames, no sparks. Eliminate all sources of ignition. Avoid the build-up of electrostatic charge.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire: Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified
Symptoms/injuries after inhalation : No known effects from this product.
Symptoms/injuries after skin contact : May cause an allergic skin reaction.
Symptoms/injuries after eye contact : Causes serious eye irritation.

Ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg (OECD 401)
LD50 dermal rabbit	> 2000 mg/kg (OECD 402)
LC50 inhalation rat	51 mg/l/4 h (OECD 403)

Acetone (67-64-1)	
LD50 oral rat	9750 mg/kg
LD50 dermal rabbit	20000 mg/kg
LC50 inhalation rat (Vapours)	76 mg/l/4h

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general : To our knowledge, the product does not present any particular risk, under normal conditions of use.

Ethanol, ethyl alcohol (64-17-5)	
LC50 fish	13000 mg/l 96 h, Oncorhynchus mykiss (OECD 203)
EC50 daphnia	12340 mg/l 48 h, Daphnia magna
LC50 daphnia	5012 mg/l 48 h, Ceriodaphnia dubia
EC50 algae	275 mg/l 72 h, Chlorella vulgaris (OECD 201)

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Acetone (67-64-1)	
LC50 fish	5540 mg/l 96 h, Oncorhynchus mykiss (OECD 203)
EC50 daphnia	8800 mg/l 48 h, Daphnia pulex
LC50 daphnia	2100 mg/l 24 h, Artemia salina
NOEC daphnia	2212 mg/l 28 d, Daphnia magna (OECD 211)
NOEC algae	430 mg/l 96 h, Prorocentrum minimum

12.2. Persistence and degradability

Ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Ethanol (64-17-5)	
Log Pow	-0.35 (24 °C)
Bioaccumulative potential	Not potentially bioaccumulable.

12.4. Mobility in soil

Ethanol (64-17-5)	
Ecology - soil	Low potential for adsorption. Product evaporates rapidly when in contact with the air.

12.5. Other adverse effects

Effect on global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Discharging into rivers and drains is forbidden. Dispose of in accordance with relevant local regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN 1866 Resin solution (flammable), 3, II
UN-No.(DOT) : UN 1866
Proper Shipping Name (DOT) : Resin solution
flammable
Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger
DOT Packaging Non Bulk (49 CFR 173.xxx) : 173
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Special Provisions (49 CFR 172.102) : 149, 383, B52, IB2, T4, TP1, TP8
DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L
DOT Vessel Stowage Location : B - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

Additional information

Other information : No supplementary information available.

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ADR

UN-No. (ADR)	: UN 1866
Transport document description	: UN 1866 RESIN SOLUTION, 3, II, (D/E)
Packing group (ADR)	: II
Class (ADR)	: 3 - Flammable liquids
Hazard identification number (Kemler No.)	: 33
Classification code (ADR)	: F1
Danger labels (ADR)	: 3 - Flammable liquids



Orange plates	: An orange rectangular label with a black border, divided into two horizontal sections. The top section contains the number '33' and the bottom section contains the number '1866'.
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Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E2

Transport by sea

UN-No. (IMDG)	: UN 1866
Proper Shipping Name (IMDG)	: RESIN SOLUTION
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
EmS-No.	: F-E, S-E
MFAG-No	: 127, 128

Air transport

UN-No. (IATA)	: UN 1866
Proper Shipping Name (IATA)	: Resin solution
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger
Instruction "cargo" (ICAO)	: 353
Instruction "passenger & cargo" (ICAO)	: 364

SECTION 15: Regulatory information

15.1. US Federal regulations

Ethanol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Acetone (67-64-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium aluminum silicate (Mica) (12001-26-2)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory
TSCA Exemption/Exclusion: Exempt - Naturally Occurring Substances in accordance with 40 CFR710.4(b)

Silica (7631-86-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

Acetone (67-64-1)

Listed on the Canadian DSL (Domestic Substances List)

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Potassium aluminum silicate (Mica) (12001-26-2)

Listed on the Canadian DSL (Domestic Substances List)

Silica (7631-86-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Ethanol (64-17-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Acetone (67-64-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Potassium aluminum silicate (Mica) (12001-26-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Silica (7631-86-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225

Full text of H-statements: see section 16

15.3. US State regulations

Ethanol (64-17-5)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	

SECTION 16: Other information, including date of preparation or last revision

Revision date : 10/15/2019

Full text of H-statements:

Eye Irrit. 2A	Eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Skin Sens. 1	Sensitization – Skin, Category 1
STOT SE 3	Specific target organ toxicity (Single exposure), Category 3
H225	Highly flammable liquid and vapor
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product